

SEQUENCE LISTING

<110> Mirkin, Chad A.
 Letsinger, Robert L.
 Mucic, Robert C.
 Storhoff, James J.
 Elghanian, Robert
 Taton, Thomas A.

<120> NANOPARTICLES HAVING OLIGONUCLEOTIDES ATTACHED THERETO
 AND USES THEREFOR

<130> 4149-1-1-1-1

<140> Not Yet Assigned

<141> 2000-06-26

<150> 60/031,809

<151> 1996-07-29

<150> PCT/US97/12783

<151> 1997-07-21

<150> 09/240,755

<151> 1999-01-29

<150> 09/344,667

<151> 1999-06-25

<150> 60/200,161

<151> 2000-04-26

<160> 64

<170> PatentIn Ver. 2.1

<210> 1

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random
 synthetic sequence

<400> 1

aaacgactct agcgcgtata

<210> 2
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 2
atggcaacta tacgcgctag

20

<210> 3
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 3
ccttgagatt tccctc

16

<210> 4
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 4
gagggaaatc tcaagg

16

<210> 5
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 5
aacttgcgct aatggcga

18

<210> 6
<211> 26
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random
synthetic sequence

<400> 6
aagttgcgct ttacggctaa tggcga

26

<210> 7
<211> 15
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random
synthetic sequence

<400> 7
tctccttccc ttttc

15

<210> 8
<211> 15
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random
synthetic sequence

<400> 8
gaaaagggaa ggaga

15

<210> 9
<211> 15
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random
synthetic sequence

<400> 9

cttttccctt cctct

15

<210> 10

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random
synthetic sequence

<400> 10

aaacgactct agcgcgtata gttgccat

28

<210> 11

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random
synthetic sequence

<400> 11

atggcaacta tacgcgctag agtcgttt

28

<210> 12

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random
synthetic sequence

<400> 12

cctatcgacc atgct

15

<210> 13
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 13
agcatgggtcg ataggaaacg actctagcgc

30

<210> 14
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 14
gcgctagagt cgttt

15

<210> 15
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 15
agcatgggtcg ataggatggc aactatacgc

30

<210> 16
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 16
gtcgatagga aacgactcta gcgc

24

<210> 17
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 17
agcatggttg ataggaaacg actctagcgc

30

<210> 18
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 18
agcatggttg ataggaaacg actctagcgc

30

<210> 19
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 19
tctcaactcg ta

12

<210> 20
<211> 12
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random
synthetic sequence

<400> 20

cgcattcagg at

12

<210> 21

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random
synthetic sequence

<400> 21

tacgagttga gagagtgtccc acat

24

<210> 22

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random
synthetic sequence

<400> 22

tacgagttga gaatcctgaa tgcg

24

<210> 23

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random
synthetic sequence

<400> 23

tacgagttga gaatcctgaa tgct

24

<210> 24

<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 24
tacgagttga gactcctgaa tgcg

24

<210> 25
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 25
tacgagttga gaatcctgaa tgc

23

<210> 26
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 26
tacgagttga gacatcctga atgcg

25

<210> 27
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 27

tacgagttga gaatcctgaa tgcg

24

<210> 28

<211> 12

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random
synthetic sequence

<400> 28

taggacttac gc

12

<210> 29

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random
synthetic sequence

<400> 29

tacgagttga gaccgttaag acgaggcaat catgcaatcc tgaatgcg

48

<210> 30

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random
synthetic sequence

<400> 30

tgcatgattg cctcgtctta acgg

24

<210> 31

<211> 72

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random
synthetic sequence

<400> 31

tacgagttga gaccgttaag acgaggcaat catgcatata ttggacgctt tacggacaac 60
atcctgaatg cg 72

<210> 32

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random
synthetic sequence

<400> 32

gttggtccgta aagcgtccaa tatatgcatg attgcctcgt cttaacgg 48

<210> 33

<211> 12

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random
synthetic sequence

<400> 33

tctcaactcg ta 12

<210> 34

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random
synthetic sequence

<400> 34

tacgagttga gaatcctgaa tgcg 24

<210> 35

<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 35
cgcatcagg at 12

<210> 36
<211> 141
<212> DNA
<213> anthrax

<400> 36
ggcggatgag tcagtagtta aggaggctca tagagaagta attaattcgt caacagaggg 60
attattgtta aatattgata aggatataag aaaaatatta tccagggtta tattgtagaa 120
attgaagata ctgaagggt t 141

<210> 37
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 37
taacaataat ccctc 15

<210> 38
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 38
atccttatca atatt 15

<210> 39
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 39
tgagcctcct taactactga ctcacccgcc

30

<210> 40
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 40
tgttgacgaa ttaattactt ctcta

25

<210> 41
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 41
tataaccctg gataatattt ttcttat

27

<210> 42
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 42
aagcccttca gtatcttcaa tttctacaa

29

<210> 43
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 43
tctcaactcg taaaaaaaaa aa

22

<210> 44
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 44
tacgagttga gaatcctgaa tgcg

24

<210> 45
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 45
aaaaaaaaaa cgcattcagg at

22

<210> 46
<211> 22
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random
synthetic sequence

<400> 46

tctcaactcg taaaaaaaaa aa

22

<210> 47

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random
synthetic sequence

<400> 47

aaaaaaaaaa cgcattcagg at

22

<210> 48

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random
synthetic sequence

<400> 48

tacgagttga gaatcctgaa tgcg

24

<210> 49

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:random
synthetic sequence

<400> 49

ctacttagat ccgagtgccc acat

24

<210> 50
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 50
cgcatcagg at

12

<210> 51
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 51
aaaaaaaaaa aaaaaaaaaa cgcatcagg at

32

<210> 52
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 52
cgcatcagg atwwwwwww wwwwwwww ww

32

<210> 53
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 53
atcctgaatg cg

12

<210> 54
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 54
atcctgaatg cg

12

<210> 55
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 55
aaaaaaaaaa aaaaaaaaaa

20

<210> 56
<211> 27
<212> DNA
<213> Anthrax

<400> 56
ggattattgt taattattga taaggat

27

<210> 57
<211> 12
<212> DNA
<213> Anthrax

<400> 57
taacaatnat cc

12

<210> 58
<211> 15
<212> DNA
<213> Anthrax

<400> 58
atccttatca atatt

15

<210> 59
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 59
tctcaactcg ta

12

<210> 60
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 60
tacgagttga gaatcctgaa tgcg

24

<210> 61
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 61
gcgtaagtcc taacgtacta acggagcaga attgccagag ttgagcat

48

<210> 62
<211> 72
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 62
gcgtaagtcc tacaacaggc atttcgcagg ttatatacgt actaacggag cagaattgcc 60
agagttgagc at 72

<210> 63
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 63
tgcattgattg cctcgtctta acgg 24

<210> 64
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:random
synthetic sequence

<400> 64
gttgtccgta aagcgtccaa tatatgcatg attgcctcgt cttaacgg 48